

666240-42020E50

REVISED	O.C. FIG.	
BY	CLASS	SUBCLASS
TSMA:1		

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FIGURE 1. Methionyl tRNA synthetase cloned DNA sequence [SEQ ID NO:1]

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1  ATGGCTAAAG AAACATTTTA TATAACAACC CCAATATACT ATCCTAGTGG
51  GAATTACAT ATAGGACATG CATATTCTAC AGTGGCTGGA GATGTTATTG
101 CAAGATATAA GAGAATGCAA GGATATGATG TTCGTTATTT GACTGGAACG
151 GATGAACACG GTCAAAAAAAT TCAAGAAAAA GCTCAAAAAG CTGGTAAGAC
201 AGAAATTGAA TATTGGATG AGATGATTGC TGGAATTAAA CAATTGTGGG
251 CTAAGCTTGA AATTTCAAAT GATGATTTTA TCAGAAACAAC TGAAGAACGT
301 CATAAACATG TCGTTGAGCA AGTGTTTGAA CGTTTATTAA AGCAAGGTGA
351 TATCTATTTA GGTTGAATATG AAGTTGGTA TTCTGTTCCG GATGAAACAT
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FIG. 1A

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401 ACTATACAGA GTCACAATTA GTAGACCCAC AATACGAAAA CGGTAAAAATT
451 ATTGGTGGCA AAAGTCCAGA TTCTGGACAC GAAGTTGAAC TAGTTAAAGA
501 AGAAAGTTAT TTCTTTAATA TTAGTAAATA TACAGACCGT TTATTAGAGT
551 TCTATGACCA AAATCCAGAT TTTATACAAC CACCATCAAG AAAAAATGAA
601 ATGATTAAACA ACTTCATTAA ACCAGGACTT GCTGATTAG CTGTTCTCG
651 TACATCATTT AACTGGGGTG TCCATGTTCC GTCTAATCCA AAACATGTTG
701 TTTATGTTTG GATTGATGCG TTAGTTAACT ATATTTCAGC ATTAGGCTAT
751 TTATCAGATG ATGAGTCACT ATTTAAACAA TACTGGCCAG CAGATATTCA
801 TTTAATGGCT AAGGAAATTG TCGGATTCCA CTCAATTATT TGGCCTATTT

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FIG. 1B

851 TATTGATGGC ATTAGACTTA CCGTTACCTA AAAAAGTCCT TGCACATGGT
901 TGGATTTTGA TGAAAGATGG AAAAATGAGT AAATCTAAAG GTAATGTTGT
951 AGACCCCTAAT ATTTTAATTG ATCGCTATGG TTTAGATGCT ACACGTTATT
1001 ATCTAATGCG TGAATTACCA TTTGGTTCAG ATGGCGTATT TACACCTGAA
1051 GCATTTGTTG AGCGTACAAA TTTTCGATCTA GCAAATGACT TAGGTAACCT
1101 AGTAAACCGT ACGATTTCCTA TGGTTAATAA GTACTTTTGAT GGCGAATTAC
1151 CAGCGTATCA AGGTCCACTT CATGAATTAG ATGAAGAAAT GGAAGCTATG
1201 GCTTTAGAAA CAGTGAAAAG CTACACTGAA AGCATGGAAA GTTTGCAATT

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FIG 1C

1251 TTCTGTGGCA TTATCTACGG TATGGAAGTT TATAAGTAGA ACGAATAAGT
1301 ATATTGACGA AACAAAGCCT TGGGTATTAG CTAAGGACGA TAGCCAAAAA
1351 GATATGTTAG GCAATGTAAT GGCTCACTTA GTTGAAAAATA TTTCGTTATGC
1401 AGCTGTATTA TTACGTCCAT TCTTAACACA TCGCCCGAAA GAGATTTTIG
1451 AACAAATGAA CATAAACAAAT CCTCAATTTA TGGAAATTAG TAGTTTAGAG
1501 CAATATGGTG TGCTTACTGA GTCAATTATG GTTACTGGGC AACCTAAACC
1551 TATTTTCCCA AGATTGGATA GCGAAGCGGA AATTGCATAT ATCAAAGAAT
1601 CAATGCAACC GCCTGCTACT GAAGAGGAAA AAGAAGAGAT TCCTAGCAAA
1651 CCTCAAATG ATATTAAAGA CTTTGATAAA GTTGAAATTA AGCAGCAAC

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FIG 1D

1701 GATTATTGAT GCTGAACATG TTAAGAAGTC AGATAAGCTT TTAAAAAATTC
1751 AAGTAGACTT AGATTCTGAA CAAAGACAAA TTGTATCAGG AATTGCCAAA
1801 TTCCTATACAC CAGATGATAT TATTGGTAA AAAGTAGCAG TTGTTACTAA
1851 CCTGAAACCA GCTAAATTAA TGGGACAAAA ATCTGAAGGT ATGATATTAT
1901 CTGCTGAAA AGATGGTGTA TTAACCTTAG TAAGTTTACC AAGTGCAATT
1951 CCAAATGGTG CAGTGATTAA ATAA

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FIGURE 2.. Methionyl tRNA synthetase deduced amino acid sequence [SEQ ID NO:2]

1 MAKETFYITT PIYPGSLNH IGHAYSTVAG DVIARYKRMQ GYDVRVLTGT

51 DEHGQIQEK AQKAGKTEIE YLDEMIAGIK QLWAKLEISN DDFIRTEER

101 HKHVVEQVFE RLLKQGDYIL GEYEGWYSVP DETYYTESQL VDPQYENGKI

151 IGCKSPDSGH EVELVKEESY FFNISKYTDR LLEFYDQNPD FIQPPSRKNE

201 MINNFIKPGL ADLAVSRTSF NWGVHVPSNP KHVYVWIDA LVNYISALGY

251 LSDDESLENK YWPADIHLMA KEIVRFHSII WPILLMALDL PLPKKVFAHG

301 WILMKDGKMS KSKGNVVDPN ILIDRYGLDA TRYILMRELP FGSDGVFTPE

351 AFVERTNFDL ANDLGNLVNR TISMVNKYFD GELPAYQGPL HELDEEMEAM

401 ALETVKSYTE SMESLQFSVA LSTVWKFISR TNKYIDETTP WVLAKDDSQK

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FIG 2A

451 DMLGNVMAHL VENIRYAAVL LRPFLTHAPK EIFEQNLINN PQMFEFSSLE
501 QYGVLTESIM VTGQPKPIFP RLDSEAEIAY IKESMQPPAT EEEKEEIPSK
551 PQIDIKDFDK VEIKAATIID AEHVKKSDKL LKIQVDLDSE QRQIVSGIAK
601 FYTPDDIIGK KVAVVTNLKP AKLMGQKSEG MILSAEKDGV LTLVSLPSAI
651 PNGAVIK